

Form 3160-5
(August 2007)

AAPD

OCD Artesia

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMMN0405444

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
ALDABRA 26 FEDERAL COM 8H

2. Name of Operator **DEVON ENERGY PRODUCTION CO. LP** Contact: **TRINA C COUCH**
Email: trina.couch@dev.com

9. API Well No.
30-015-38624

3a. Address **DEVON ENERGY PRODUCTION CO. LP 333 WEST SHERRILL DR OKLAHOMA CITY, OK 73102-5015**

3b. Phone No. (include area code) **405-228-7203**

10. Field and Pool, or Exploratory
021501BCAT; BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 26 T23S R31E 350FSL 445FEL

11. County or Parish, and State
EDDY COUNTY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change to Original APD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Devon Energy Production Company, L.P. respectfully requests to change the target formation on the Aldabra 26 Fed Com 8H from an Avalon Shale to a 3rd Bone Spring well.

Accepted for record
NMOCD
8/1/2013

Thank you

RECEIVED
JUL 31 2013
NMOCD ARTESIA

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

Attachments:

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #213408 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO. LP, sent to the Carlsbad
Committed to AFSS for processing by JOHNNY DICKERSON on 07/18/2013 ()**

Name (Printed/Typed) **TRINA C COUCH**

Title **REGULATORY ASSOCIATE**

Signature (Electronic Submission)

Date **07/12/2013**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

APPROVED
JUL 29 2013
[Signature]
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any Federal or State agency or to any State any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #213408 that would not fit on the form

32. Additional remarks, continued

Drilling Plan
Directional Survey

ALDABRA 26 FED COM 8H- APD DRILLING PLAN
 SKS 6.28.12
 REVISED 7.9.13

Casing Program

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
17-1/2"	0 - 880	13-3/8"	0 - 880	48#	STC	H-40
12-1/4"	880 - 4225	9-5/8"	0 - 4425	40#	LTC	J-55
8-3/4"	4425 - 10950	5-1/2"	0 - 10950	17#	LTC	P-110
8-3/4"	10950 - 16031	5-1/2"	10950 - 16031	17#	BTC	P-110

MAX TVD: 11,620 FT

Design Factors

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17.5"-68# P-110-BTC	1.94	4.35	7.89
12.25" 40# HCK-55 BTC	1.24	1.72	2.94
8-1/2" 17# HCP-110 LTC	1.67	2.08	1.63
8-1/2" 17# HCP-110 BTC	1.58	1.96	5.15

Mud Program

Depth	Mud Wt.	Visc.	Fluid Loss	Type System
0 - 880	8.4 - 9.0	30 - 34	N/C	FW
880 - 4225	9.8 - 10.0	28 - 32	N/C	Brine
4225 - 16031	8.6 - 9.0	28 - 32	N/C	FW

Pressure Control Equipment

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a **3M system** prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a **3M system** prior to drilling out the intermediate casing shoe.

The pipe rams will be operated and checked as per Onshore Order 2. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at **3,000 psi WP**.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

SAR
CJA

Devon

Aldabra 26 Fed 8H

Cementing Program (cement volumes based on at least Surface 150% excess, Intermediate 75% excess and Production is 25% excess)

13-3/8" Surface

Tail: 740 sacks Class C Cement + 1% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg

Yield: 1.34 cf/sk

TOC @ surface

9-5/8" 2nd Intermediate

Lead: 950 sacks (65:35) Class H Cement:Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.8 % Fresh Water, 12.9 ppg

Yield: 1.85 cf/sk

TOC @ surface

Tail: 430 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.9% Fresh Water, 14.8 ppg

Yield: 1.33 cf/sk

5-1/2" Production

1st Stage

Lead: 950 sacks (65:35) Class H Cement:Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 73.6 % Fresh Water, 12.5 ppg

Yield: 2.04 cf/sk

TOC @ 5000

Tail: 1300 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg

Yield: 1.22 cf/sk

DV Tool at 5000ft

2nd Stage

Lead: 470 sacks (50:50) Class H Cement:Poz (Fly Ash) + 10% BWOC Bentonite + 8 lb/sk Sodium Chloride + 0.15 lb/sk of FWCA + 0.125 lb/sk of Pol-E-Flake + 0.3% BWOC HR-601 + 0.25 lb/sk D-Air 5000 + 77.2% Fresh Water, 11.8 ppg

Yield: 2.52 cf/sk

TOC @ surface

Tail: 120 sacks Class C Cement + 63.5% Water, 14.8 ppg

Yield: 1.33 cf/sk

Sub
COA

TOC for All Strings:

Surface: 800ft	0ft (800ft of fill of Tail)
Intermediate: 4425ft 0ft	(3425ft of fill of Lead & 1000 ft of fill of Tail)
Production: 16031ft	5000ft (1 st Stage - 6082ft of fill of Lead & 4949ft of fill of Tail)
	0ft (2 nd Stage - 4500ft of fill of Lead & 500 ft of fill of Tail)

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.



Weatherford®

Drilling Services

Proposal



devon

ALDABRA 26 FED COM 8H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

JULY 10, 2013

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



Aldabra 26 Fed Com 8H
Eddy Co, NM

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	11082.62	0.00	0.00	11082.62	0.00	0.00	0.00	0.00	0.00	
3	11211.79	15.50	60.00	11210.22	8.68	15.04	12.00	60.00	7.89	
4	11906.61	90.00	355.56	11620.00	489.48	80.53	12.00	-65.26	484.65	
5	16031.49	90.00	355.56	11620.00	4601.97	-238.85	0.00	0.00	4608.16	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Aldabra 26 Fed Com 8H	0.00	0.00	462150.34	724266.82	32°16'08.892N	103°44'29.364W	N/A

TARGET DETAILS

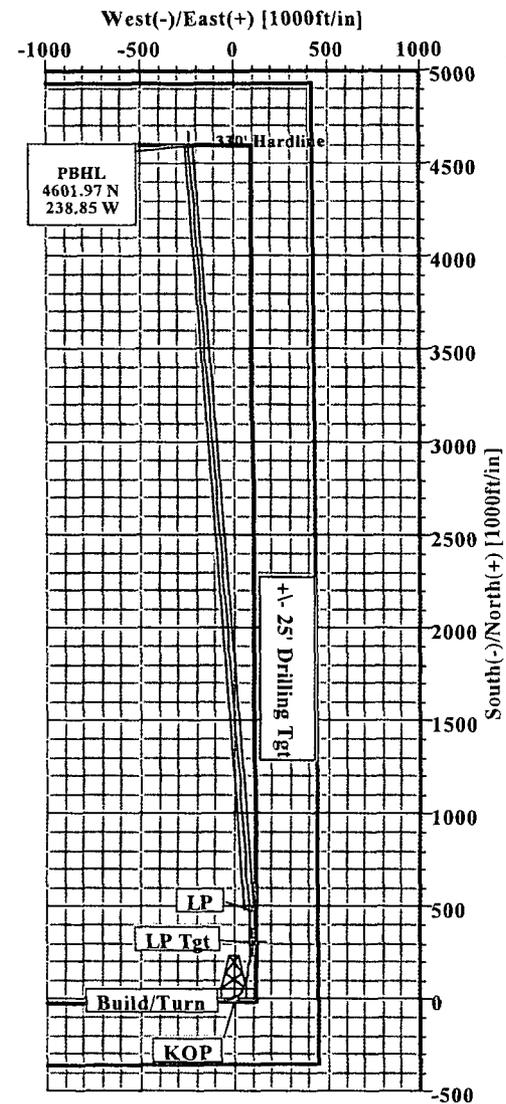
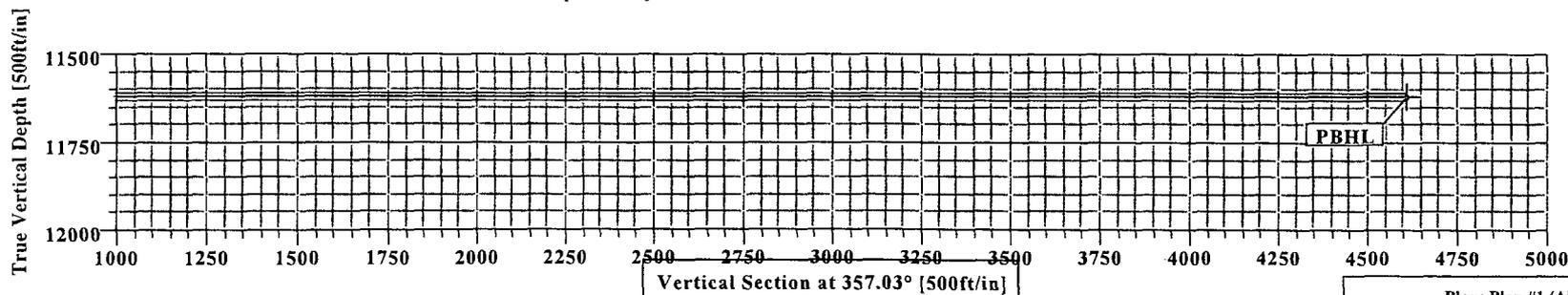
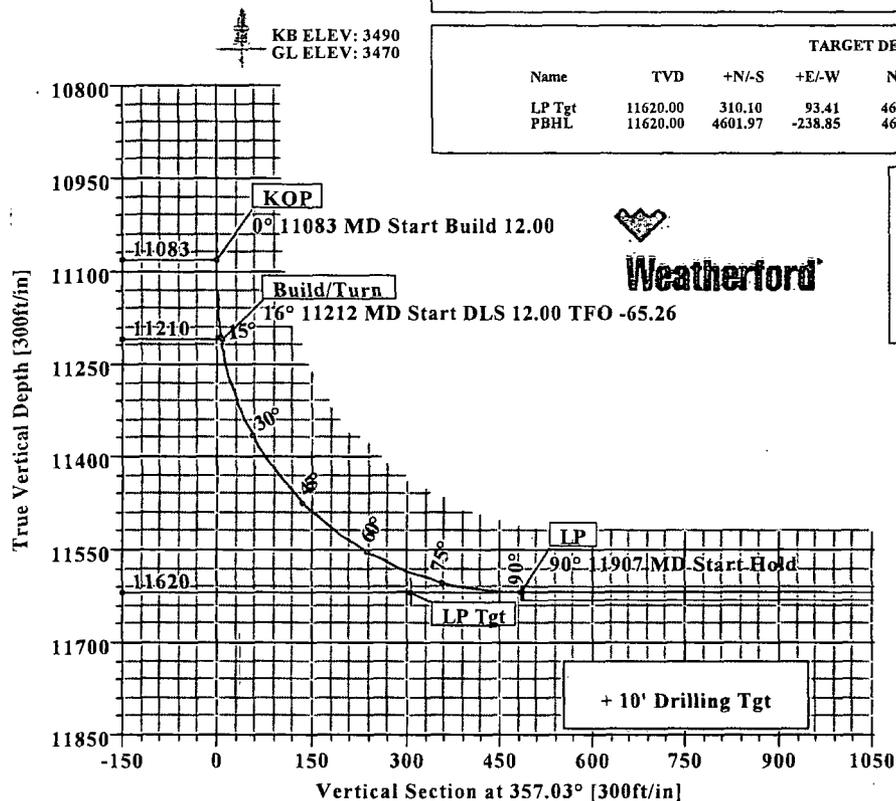
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
LP Tgt	11620.00	310.10	93.41	462460.44	724360.23	Point
PBHL	11620.00	4601.97	-238.85	466752.31	724027.97	Rectangle (4124x50)

SITE DETAILS

Aldabra 26 Fed Com 8H
Site Centre Northing: 462150.34
Easting: 724266.82
Ground Level: 3470.00
Positional Uncertainty: 0.00
Convergence: 0.32

LEGEND

- 1 Plan #1



Plan: Plan #1 (Aldabra 26 Fed Com 8H/1)
Created By: Russell W. Joyner
Date: 7/10/2013



Weatherford

Wft Plan Report X Y's.



Company: Devon Energy Field: Eddy Co., NM (NAD 83) Site: Aldabra 26 Fed Com 8H Well: Aldabra 26 Fed Com 8H Wellpath: 1	Date: 7/10/2013 Time: 12:51:04 Page: 1 Coordinate(NE) Reference: Well: Aldabra 26 Fed Com 8H, Grid North Vertical (TVD) Reference: SITE 3490.0 Section (VS) Reference: Well (0.00N,0.00E,357.03Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Plan: Plan #1 Principal: Yes	Date Composed: 7/10/2013 Version: 1 Tied-to: From Surface
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Site: Aldabra 26 Fed Com 8H

Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3470.00 ft	Northing: 462150.34 ft Easting: 724266.82 ft	Latitude: 32 16 8.892 N Longitude: 103 44 29.364 W North Reference: Grid Grid Convergence: 0.32 deg
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Well: Aldabra 26 Fed Com 8H Well Position: +N/-S 0.00 ft Position Uncertainty: 0.00 ft	Slot Name: Northing: 462150.34 ft Latitude: 32 16 8.892 N Easting: 724266.82 ft Longitude: 103 44 29.364 W
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Wellpath: 1 Current Datum: SITE Magnetic Data: 10/30/2013 Field Strength: 48413 nT Vertical Section: Depth From (TVD)	Height 3490.00 ft +N/-S ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 7.38 deg Mag Dip Angle: 60.14 deg +E/-W ft	Direction deg
0.00	0.00	0.00	357.03

Plan Section Information

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11082.62	0.00	0.00	11082.62	0.00	0.00	0.00	0.00	0.00	0.00	
11211.79	15.50	60.00	11210.22	8.68	15.04	12.00	12.00	0.00	60.00	
11906.61	90.00	355.56	11620.00	489.48	80.53	12.00	10.72	-9.27	-65.26	
16031.49	90.00	355.56	11620.00	4601.97	-238.85	0.00	0.00	0.00	0.00	PBHL

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
11000.00	0.00	0.00	11000.00	0.00	0.00	0.00	0.00	462150.34	724266.82	
11082.62	0.00	0.00	11082.62	0.00	0.00	0.00	0.00	462150.34	724266.82	KOP
11100.00	2.09	60.00	11100.00	0.16	0.27	0.14	12.00	462150.50	724267.09	
11200.00	14.09	60.00	11198.82	7.18	12.43	6.52	12.00	462157.52	724279.25	
11211.79	15.50	60.00	11210.22	8.68	15.04	7.89	12.00	462159.02	724281.86	Build/Turn
11300.00	22.08	33.65	11293.83	28.43	34.49	26.61	12.00	462178.77	724301.31	
11400.00	32.14	19.03	11382.83	69.37	53.64	66.50	12.00	462219.71	724320.46	
11500.00	43.13	11.05	11461.95	128.28	68.92	124.53	12.00	462278.62	724335.74	
11600.00	54.48	5.85	11527.73	202.58	79.66	198.18	12.00	462352.92	724346.48	
11700.00	66.00	1.96	11577.31	289.03	85.38	284.21	12.00	462439.37	724352.20	
11800.00	77.60	358.71	11608.50	383.84	85.85	378.88	12.00	462534.18	724352.67	
11900.00	89.23	355.75	11619.96	482.88	81.03	478.04	12.00	462633.22	724347.85	
11906.61	90.00	355.56	11620.00	489.48	80.53	484.65	12.00	462639.82	724347.35	LP
12000.00	90.00	355.56	11620.00	582.58	73.30	578.00	0.00	462732.92	724340.12	
12100.00	90.00	355.56	11620.00	682.28	65.56	677.97	0.00	462832.62	724332.38	
12200.00	90.00	355.56	11620.00	781.98	57.81	777.94	0.00	462932.32	724324.63	
12300.00	90.00	355.56	11620.00	881.68	50.07	877.90	0.00	463032.02	724316.89	
12400.00	90.00	355.56	11620.00	981.38	42.33	977.87	0.00	463131.72	724309.15	
12500.00	90.00	355.56	11620.00	1081.08	34.59	1077.84	0.00	463231.42	724301.41	
12600.00	90.00	355.56	11620.00	1180.78	26.84	1177.81	0.00	463331.12	724293.66	
12700.00	90.00	355.56	11620.00	1280.48	19.10	1277.77	0.00	463430.82	724285.92	
12800.00	90.00	355.56	11620.00	1380.18	11.36	1377.74	0.00	463530.52	724278.18	



Weatherford

Wft Plan Report X Y's.



Weatherford

Company: Devon Energy Field: Eddy Co. NM (NAD 83) Site: Aldabra 26 Fed Com 8H Well: Aldabra 26 Fed Com 8H Wellpath: 1	Date: 7/10/2013 Time: 12:51:04 Page: 2 Co-ordinate(NE) Reference: Well: Aldabra 26 Fed Com 8H, Grid North Vertical (TVD) Reference: SITE 3490.0 Section (VS) Reference: Well (0.00N,0.00E,357.03Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comments
12900.00	90.00	355.56	11620.00	1479.88	3.61	1477.71	0.00	463630.22	724270.43	
13000.00	90.00	355.56	11620.00	1579.58	-4.13	1577.67	0.00	463729.92	724262.69	
13100.00	90.00	355.56	11620.00	1679.28	-11.87	1677.64	0.00	463829.62	724254.95	
13200.00	90.00	355.56	11620.00	1778.98	-19.61	1777.61	0.00	463929.32	724247.21	
13300.00	90.00	355.56	11620.00	1878.68	-27.36	1877.58	0.00	464029.02	724239.46	
13400.00	90.00	355.56	11620.00	1978.38	-35.10	1977.54	0.00	464128.72	724231.72	
13500.00	90.00	355.56	11620.00	2078.08	-42.84	2077.51	0.00	464228.42	724223.98	
13600.00	90.00	355.56	11620.00	2177.78	-50.59	2177.48	0.00	464328.12	724216.23	
13700.00	90.00	355.56	11620.00	2277.48	-58.33	2277.44	0.00	464427.82	724208.49	
13800.00	90.00	355.56	11620.00	2377.18	-66.07	2377.41	0.00	464527.52	724200.75	
13900.00	90.00	355.56	11620.00	2476.88	-73.81	2477.38	0.00	464627.22	724193.01	
14000.00	90.00	355.56	11620.00	2576.58	-81.56	2577.34	0.00	464726.92	724185.26	
14100.00	90.00	355.56	11620.00	2676.28	-89.30	2677.31	0.00	464826.62	724177.52	
14200.00	90.00	355.56	11620.00	2775.98	-97.04	2777.28	0.00	464926.32	724169.78	
14300.00	90.00	355.56	11620.00	2875.68	-104.78	2877.25	0.00	465026.02	724162.04	
14400.00	90.00	355.56	11620.00	2975.38	-112.53	2977.21	0.00	465125.72	724154.29	
14500.00	90.00	355.56	11620.00	3075.08	-120.27	3077.18	0.00	465225.42	724146.55	
14600.00	90.00	355.56	11620.00	3174.78	-128.01	3177.15	0.00	465325.12	724138.81	
14700.00	90.00	355.56	11620.00	3274.48	-135.76	3277.11	0.00	465424.82	724131.06	
14800.00	90.00	355.56	11620.00	3374.18	-143.50	3377.08	0.00	465524.52	724123.32	
14900.00	90.00	355.56	11620.00	3473.88	-151.24	3477.05	0.00	465624.22	724115.58	
15000.00	90.00	355.56	11620.00	3573.58	-158.98	3577.02	0.00	465723.92	724107.84	
15100.00	90.00	355.56	11620.00	3673.28	-166.73	3676.98	0.00	465823.62	724100.09	
15200.00	90.00	355.56	11620.00	3772.98	-174.47	3776.95	0.00	465923.32	724092.35	
15300.00	90.00	355.56	11620.00	3872.68	-182.21	3876.92	0.00	466023.02	724084.61	
15400.00	90.00	355.56	11620.00	3972.38	-189.96	3976.88	0.00	466122.72	724076.86	
15500.00	90.00	355.56	11620.00	4072.08	-197.70	4076.85	0.00	466222.42	724069.12	
15600.00	90.00	355.56	11620.00	4171.78	-205.44	4176.82	0.00	466322.12	724061.38	
15700.00	90.00	355.56	11620.00	4271.48	-213.18	4276.78	0.00	466421.82	724053.64	
15800.00	90.00	355.56	11620.00	4371.18	-220.93	4376.75	0.00	466521.52	724045.89	
15900.00	90.00	355.56	11620.00	4470.88	-228.67	4476.72	0.00	466621.22	724038.15	
16000.00	90.00	355.56	11620.00	4570.58	-236.41	4576.69	0.00	466720.92	724030.41	
16031.49	90.00	355.56	11620.00	4601.97	-238.85	4608.16	0.00	466752.31	724027.97	PBHL

Targets

Name	Description Dip Dir	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
LP Tgt		11620.00	310.10	93.41	462460.44	724360.23	32 16 11.956 N	103 44 28.256 W
PBHL -Rectangle (4124x50)		11620.00	4601.97	-238.85	466752.31	724027.97	32 16 54.444 N	103 44 31.850 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford

Wft Plan Report X Y's.



Company: Devon Energy
Field: Eddy Co. NM (NAD 83)
Site: Aldabra 26 Fed Com 8H
Well: Aldabra 26 Fed Com 8H
Wellpath: 1

Date: 7/10/2013
Time: 12:51:04
Page: 3
Co-ordinate(NE) Reference: Well: Aldabra 26 Fed Com 8H, Grid North
Vertical (TVD) Reference: SITE 3490.0
Section (VS) Reference: Well (0.00N,0.00E,357.03Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Formations

MD	TVD	Formations	Lithology	Dip,Angle	Dip Direction
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Annotation

MD	TVD	
ft	ft	
11082.62	11082.62	KOP
11211.79	11210.22	Build/Turn
11906.61	11620.00	LP
16031.49	0.00	PBHL



Weatherford

Weatherford Drilling Services

GeoDec v5.03

Report Date: July 10, 2013
 Job Number: _____
 Customer: Devon
 Well Name: Aldabra 26 Fed Com 8H
 API Number: _____
 Rig Name: _____
 Location: Eddy Co., NM
 Block: _____
 Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 462150.340 USFT	Latitude 32.2691393 DEG
East/West 724266.820 USFT	Longitude -103.7414852 DEG
Grid Convergence: .32°	
Total Correction: +7.17°	

Geodetic Location WGS84 Elevation = 0.0 Meters
 Latitude = 32.26914° N 32° 16 min 8.902 sec
 Longitude = 103.74149° W 103° 44 min 29.347 sec

Magnetic Declination =	7.49°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6580
Local Field Strength =	48398 nT	Magnetic Vector X =	23900 nT
Magnetic Dip =	60.13°	Magnetic Vector Y =	3141 nT
Magnetic Model =	bggm2013	Magnetic Vector Z =	41967 nT
Spud Date =	Oct 30, 2013	Magnetic Vector H =	24106 nT

Signed: _____ Date: _____

Aldabra 26 Federal Com 8H
30-015-38624
Devon Energy Production Co.
July 29, 2013
Conditions of Approval

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated prior to drilling out the surface shoe. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Option – **Setting surface casing with Ashton Rig – NO LONGER APPROVED**
4. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

5. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

R-111-P-Potash

Possible lost circulation in the Delaware and Bone Spring.

Possible water and brine flows in the Salado, Castile, Delaware and Bone Spring.

1. The **13-3/8** inch surface casing shall be set at approximately **880** feet (**below the Magenta Dolomite of the Rustler Anhydrite and above the salt**) and cemented to the surface. **Freshwater mud to be used to setting depth.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Operator has proposed DV tool at depth of 5000'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

- a. First stage to DV tool:
 - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Additional cement may be required as excess calculates to 3%.**

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

5. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
 - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The results of the test shall be reported to the appropriate BLM office.

- d. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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